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| APPLICATION NO.                | FILING DATE               | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO.                      |
|--------------------------------|---------------------------|----------------------|---------------------|---------------------------------------|
| 10/667,970                     | 09/23/2003                | Scung-Gi Chang       | Q76936              | 7887                                  |
| 23373<br>SUGHRUE MI            | 7590 09/13/200<br>ON PLLC | 7                    | EXAMINER            |                                       |
| 2100 PENNSYLVANIA AVENUE, N.W. |                           |                      | PHILIPPE, GIMS S    |                                       |
| SUITE 800<br>WASHINGTO         | N, DC 20037               |                      | ART UNIT            | PAPER NUMBER                          |
|                                | ,                         |                      | 2621                |                                       |
|                                |                           |                      |                     | · · · · · · · · · · · · · · · · · · · |
|                                |                           |                      | MAIL DATE           | DELIVERY MODE                         |
|                                |                           |                      | 09/13/2007          | PAPER                                 |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|   |  | Application No.  | Applicant(s)  |  |  |
|---|--|--|---|--|--|
|   |  | 10/667,970   | CHANG ET AL.  |  |  |
| Office Acti   | on Summary   | Examiner   | Art Unit  |  |  |
|   |  | Gims S. Philippe   | 2621  |  |  |
|   | ATE of this communication ap   | pears on the cover sheet with  | the correspondence address  |  |  |
| Period for Reply  |  | \  |   |  |  |
| WHICHEVER IS LONG - Extensions of time may be availed SIX (6) MONTHS from the If NO period for reply is specification Failure to reply within the set | GER, FROM THE MAILING D valiable under the provisions of 37 CFR 1.1 he mailing date of this communication. fied above, the maximum statutory period or extended period for reply will, by statute ice later than three months after the mailin | ATE OF THIS COMMUNICATION ATE OF THIS COMMUNICATION AT THE PROPERTY OF THE PRO | oly be timely filed  HS from the mailing date of this communication.  NDONED (35 U.S.C. § 133). |  |  |
| Status  |  |  |   |  |  |
| 1) Responsive to c  | ommunication(s) filed on <u>26 J</u>   | une 2007.  |   |  |  |
| 2a) This action is FII  | This action is <b>FINAL</b> . 2b)⊠ This action is non-final.   |  |   |  |  |
| 3) Since this applic  | ation is in condition for allowa   | nce except for formal matter   | rs, prosecution as to the merits is   |  |  |
| closed in accord  | ance with the practice under t   | Ex parte Quayle, 1935 C.D.   | 11, 453 O.G. 213.   |  |  |
| Disposition of Claims   |  | ,  |   |  |  |
| 4)⊠ Claim(s) 1-13 is/   | are pending in the application   |  | •   |  |  |
|   | claim(s) is/are withdra  |  |   |  |  |
| 5)⊠ Claim(s) <u>1-5 and</u>   | <u>l 9-13</u> is/are allowed.  |  |   |  |  |
| 6)⊠ Claim(s) <u>6 and 7</u>   | is/are rejected.   |  |   |  |  |
| 7)⊠ Claim(s) <u>8</u> is/are  |  |  |   |  |  |
| 8) Claim(s)   | are subject to restriction and/o   | or election requirement.   |   |  |  |
| Application Papers  |  |  |   |  |  |
| 9) The specification  | is objected to by the Examine  | er.  |   |  |  |
|   | ed on is/are: a)□ acc  |  | y the Examiner.   |  |  |
| Applicant may not   | request that any objection to the  | drawing(s) be held in abeyance   | e. See 37 CFR 1.85(a).  |  |  |
| Replacement drav  | ving sheet(s) including the correct  | tion is required if the drawing(s  | ) is objected to. See 37 CFR 1.121(d).  |  |  |
| 11) The oath or decla   | aration is objected to by the Ex   | caminer. Note the attached (   | Office Action or form PTO-152.  |  |  |
| Priority under 35 U.S.C. §  | § 119  |  |   |  |  |
| 12) Acknowledgment  | is made of a claim for foreign   | priority under 35 U.S.C. § 1   | 19(a)-(d) or (f).   |  |  |
|   | ie * c)□ None of:  |  |   |  |  |
| 1. Certified c  | opies of the priority document   | s have been received.  |   |  |  |
| 2. Certified c  | opies of the priority document   | s have been received in App  | olication No  |  |  |
| 3. Copies of  | the certified copies of the prio   | rity documents have been re  | eceived in this National Stage  |  |  |
|   | from the International Bureau  | •  |   |  |  |
| * See the attached  | detailed Office action for a list  | of the certified copies not re   | eceived.  |  |  |
|   |  |  |   |  |  |
|   |  |  |   |  |  |
| Attachment(s)   |  | _  |   |  |  |
| 1) Notice of References Cited   | I (PTO-892)<br>atent Drawing Review (PTO-948)  |  | mmary (PTO-413)<br>Mail Date  |  |  |
| 3) Information Disclosure Sta   | tement(s) (PTO/SB/08)  | 5) 🔲 Notice of Info  | ormal Patent Application  |  |  |
| Paper No(s)/Mail Date   | <u> </u>   | 6) [] Other:   | ,   |  |  |

## Response to Amendment

1. Applicant's response received on June 6, 2007 has been fully considered and entered, but the arguments are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Zhang et al. (US Patent Application Publication no. 2002/0010938 A1).

Regarding claim 6, Zhang discloses a bit rate control apparatus comprising a preencoding unit for receiving a video stream and initializing a buffer required for coding (See [0026, lines 8-14]); an encoding unit for inter-coding and intra-coding the received video stream (See [0124], lines 6-12]); a post-encoding unit for updating the buffer based on the coded video data and adjusting a bit rate by controlling frame-skip (See [0124], lines 12-16, [0125], lines 1-12, and [0126]); a time instant update unit for receiving a next frame (See fig. 9, item 960 and [0126]); and a determination unit for determining whether or not the received frame is a first video object plane (See [0112]).

As per claim 7, Zhang further provides in fig. 9 an initialization unit for allocating a memory to a rate distortion buffer in which an encoded bitstream to be transmitted to a decoder is stored (See fig. 9, item 932); a quantization parameter estimation unit for estimating a quantization parameter for encoding, using a predetermined organized network (See fig. 9, item 934); a target estimation unit for estimating an amount of bits to be allocated to an inputted frame according to a state of the rate distortion buffer (See fig. 9, item 912); and a joint buffer control unit for modifying the rate distortion buffer in consideration of the structure of the network and the target estimation result (See Fig. 9, item 914).

- 4. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. Claims 1-5 and 9-13 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gims S. Philippe whose telephone number is (571) 272-7336. The examiner can normally be reached on M-F (10:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dastouri Mehrdad can be reached on (571) 272-7418. The fax phone

Art Unit: 2621

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gims S Philippe Primary Examiner Art Unit 2621

**GSP** 

September 10, 2007